

**CONFERENCE OF THE EIGHTEEN-NATION COMMITTEE
ON DISARMAMENT**

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C A N A D A

Working Paper listing recent Canadian scientific papers
concerning the detection and identification of underground
nuclear explosions by seismological means

Reference was made in the statement of the Canadian Delegation at the 404th meeting on 17 April to Canadian scientific papers concerning the detection and identification of underground nuclear explosions by seismological means published since the SIPRI meetings. For the convenience of the members of the ENDC the titles of these papers and particulars of their publication are set out below:

Canadian magnitudes of earthquakes and nuclear explosions in southwestern North America by P.W. Basham, Geophysical Journal Royal Astronomical Society, London, Volume 17, pages 1-13, 1969.

Operation and maintenance of the Yellowknife Seismological Array 1966-68 by E.B. Manchec and W.D. Cooper, Seismological Series of Dominion Observatory, Ottawa, 1968 (2).

Comparison of Montreal P-wave magnitudes from SP and IP seismograms by P.W. Basham, Seismological Series of Dominion Observatory, Ottawa, 1968 (3).

The following directly relevant papers are in press in the open literature:

Canadian magnitudes of Asian earthquakes and explosions by P.W. Basham.

Correlogram discrimination parameters from Yellowknife seismic array data by K. Whitham, P.W. Basham and H.S. Hasegawa, in press in Seismological Series of Dominion Observatory, Ottawa.

Theoretical response of a seismograph at Yellowknife to an underground explosion at N.T.S., by H.S. Hasegawa and K. Whitham, Canadian Journal of Earth Sciences, Ottawa, in press.

Epicentral determination by seismic arrays by D.H. Weichert, Nature, London, in press.